

Claims

1. A process for producing a modified polyethylene resin,  
which comprises the step of melt kneading at least:

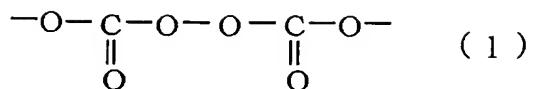
5           (A) 100 parts by weight of a polyethylene resin,  
             (B) from 0.1 to 20 parts by weight of at least one compound  
selected from the group consisting of:

10           (B1) a compound having in its molecule (i) at least  
one carbon-carbon double or triple bond and (ii) at least one  
polar group, and

15           (B2) a compound having in its molecule (iii) an OR group  
and (iv) at least two functional groups, which functional groups  
are the same as or different from each other, and are selected  
from the group consisting of a carboxylic acid group, an acid  
halide group, an acid anhydride group, an acid halide anhydride  
group, an acid ester group, an acid amide group, an imide group,  
an imido group, an amino group and a salt of an amino group,  
wherein the R is hydrogen, an alkyl group, an aryl group, an  
acyl group or a carbonyldioxy group, and

20           (C) from 0.01 to 20 parts by weight of an organic peroxide  
having a decomposition temperature of from 50 to 115 °C, at which  
temperature a half-life thereof is 1 minute.

25           2. The process for producing a modified polyethylene resin  
according to Claim 1, wherein the organic peroxide (C) has the  
following structure (1),



in its molecule.

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3. The process for producing a modified polyethylene resin according to Claim 1, wherein the organic peroxide (C) is dicetyl peroxydicarbonate.

10 4. The process for producing a modified polyethylene resin according to Claim 1, wherein the melt kneading is carried out in an extruder.

15 5. The process for producing a modified polyethylene resin according to Claim 1, wherein the compound (B1) is maleic anhydride, maleic acid, fumaric acid, itaconic anhydride, itaconic acid, glycidyl (meth)acrylate or 2-hydroxyethylmethacrylate.